

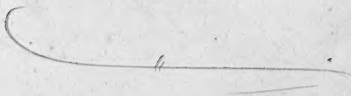


Dr. 4814 - 4859

41 4878 - 80

D 4873.
H 4877 last.

Japanese Cruise
#3



No. *D 4814*

Date

July 18, 1906

Machine.

Reel.

Lucas

Turns

Cor. +

Depth *429 fath.*Shot or lead *30^{lb} and rod.*Bottom *bn. M.*Bottom temperature *33°*No. of thermometer *108019*

Cor.

Corrected temperature *32.9*Air *84°* Surface *74°* DriftTrawl or dredge *12' Tanner*

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|---------------------------------------------------------------------------------------------------------|-----------------|-------------------|-----------------|-----------------|
| DOWN. | UP. | | DOWN. | UP. |
| <i>10-27-50</i> | <i>10-43-00</i> | 0 | <i>10-47-15</i> | <i>11-48-50</i> |
| <i>28-55</i> | <i>41-35</i> | 100 | <i>50-55</i> | <i>45-30</i> |
| <i>30-10</i> | <i>40-15</i> | 200 | <i>54-05</i> | <i>42-30</i> |
| <i>31-25</i> | <i>38-55</i> | 300 | <i>57-15</i> | <i>39-35</i> |
| <i>32-40</i> | <i>37-15</i> | 400 | <i>11-00-30</i> | <i>36-25</i> |
| <i>10-33-10</i> | <i>10-36-40</i> | <i>429</i> 500 | <i>4-50</i> | <i>32-40</i> |
| <i>Hoove in 20 fath & let go to detach shot. Shot failed to detach second time.</i> | | 600 | <i>11-7-15</i> | <i>11-27-15</i> |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|-------------------|------------------------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | <i>P.L.</i> | <i>55.4</i> |
| | | 2600 | <i>Wind</i> | <i>Calm</i> |
| | | 2700 | <i>Weather</i> | <i>bcg.</i> |
| | | 2800 | <i>Sea</i> | <i>Smooth</i> |
| | | 2900 | <i>Bar.</i> | <i>30.00</i> |
| | | 3000 | <i>Ther. Att.</i> | <i>78°</i> |
| | | 3100 | <i>Course</i> | <i>S.E.</i> |
| | | 3200 | <i>Lat.</i> | <i>38° 32' N.</i> |
| | | 3300 | <i>Long.</i> | <i>138° 43' E.</i> |
| | | 3400 | <i>Chart</i> | <i>H.O. 1300.</i> |
| | | 3500 | <i>Bearings</i> | <i>N. Pt.</i> |
| | | 3600 | <i>Sado I.</i> | <i>S. 42° W, true,</i> |
| | | 3700 | <i>Dist.</i> | <i>15.7 miles.</i> |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

Annihil -
No. *D. 4815.* Date *18 July, 1906.*

Lucas Machine. Reel. *Lucas*

Turns Cor.+ Depth *70 fms.*

Shot ~~on lead~~ *35 lb + Sigsbee Sdg. Cup.*

Bottom *dk. gn. S.*

Bottom temperature *51.2°*

No. of thermometer *108019.* Cor. *- 0.4*

Corrected temperature *51.0°*

Air *88°* Surface *87°* Drift

Trawl or dredge *12-ft. Tanner Trawl.*

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|----------------|---------|-----------------------|----------------|
| DOWN. | UP. | | DOWN. | UP. |
| <i>2.05.15</i> | <i>2.09.00</i> | 0 | <i>2:13.25</i> | <i>2.43.30</i> |
| <i>2.06.30</i> | <i>2.07.55</i> | 70. 100 | <i>17.00</i> | <i>391.00</i> |
| | | 125 200 | <i>2:18.00</i> | <i>2.38.00</i> |
| | | 300 | | |
| | | 400 | <i>Trawled 20 min</i> | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------------------------|-----------------------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | <i>P.L.</i> | <i>73.6</i> |
| | | 2600 | <i>Weather</i> | <i>609. 8</i> |
| | | 2700 | <i>Wind</i> | <i>Var. 1</i> |
| | | 2800 | <i>Sea</i> | <i>S.</i> |
| | | 2900 | <i>Barometer</i> | <i>29.96</i> |
| | | 3000 | <i>Ther. att'd.</i> | <i>79°</i> |
| | | 3100 | <i>Chart</i> | <i>#0. 1300.</i> |
| | | 3200 | <i>Course</i> | <i>SW by S (PSC).</i> |
| | | 3300 | <i>Lat. 38° 16' N.</i> | |
| | | 3400 | <i>Long. 138° 52' E.</i> | |
| | | 3500 | <i>Bearings: Niigata</i> | |
| | | 3600 | <i>Lt. S 55° E, true, det.</i> | |
| | | 3700 | <i>21.5 m.</i> | |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

507
Annihil-

No. *D. 4816* Date *18 Jul. 1906.*

T. N. Machine. Reel.

Turns *64* Cor.+ Depth *64 fms.*

Shot or lead *T. N. Sinker*

Bottom *fine gy. S.*

Bottom temperature *51.9°*

No. of thermometer *108019.* Cor. *- 0.7*

Corrected temperature *51.7°*

Air *81°* Surface *77°* Drift

Trawl or dredge *12-ft. Tanner Trawl.*

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|----------------|----------------|----------------------|----------------|
| DOWN. | UP. | | DOWN. | UP. |
| <i>2.57.30</i> | <i>3.02.10</i> | 0 | <i>3.03.45</i> | <i>3.31.30</i> |
| <i>3.00.20</i> | <i>3.00.30</i> | <i>64.</i> 100 | <i>07.15</i> | <i>28.00</i> |
| | | 110 | <i>3.07.40</i> | <i>3.27.30</i> |
| | | 200 | | |
| | | 300 | | |
| | | 400 | <i>Towed 20 min.</i> | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1800 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|-----------------------------|-------------------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | <i>P. L.</i> | — |
| | | 2600 | <i>Weather</i> | <i>bez. 9</i> |
| | | 2700 | <i>Wind</i> | <i>Var. 1.</i> |
| | | 2800 | <i>Sea</i> | <i>5</i> |
| | | 2900 | <i>Baromet.</i> | <i>29.95</i> |
| | | 3000 | <i>Ther. att.</i> | <i>.79°</i> |
| | | 3100 | <i>Chart</i> | <i>H.O. 1300.</i> |
| | | 3200 | <i>Course (psc)</i> | <i>S. E.</i> |
| | | 3300 | <i>Lat. 38°</i> | <i>14' N.</i> |
| | | 3400 | <i>Long. 138°</i> | <i>54' E.</i> |
| | | 3500 | <i>Bearings:</i> | <i>Niigata</i> |
| | | 3600 | <i>Lt. S. 22° E., true,</i> | |
| | | 3700 | <i>dist. 19 miles.</i> | |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

No. *4817* Date *18 July, 1906.**T. N.* Machine. Reel.Turns Cor.+ Depth *61 fms.*Shot or lead *T. N. Sinter*Bottom *fine gy. S.*Bottom temperature *52.10*No. of thermometer *108019.* Cor. *- 0.2°*Corrected temperature *51.9°*Air *80* Surface *76* DriftTrawl or dredge *12 ft Tanner*

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|------------------------------------------------------------------------|----------------|----------------|----------------|----------------|
| DOWN. | UP. | | DOWN. | UP. |
| <i>3.50.30</i> | <i>3.53.00</i> | 0 | <i>3.55.20</i> | <i>4.23.15</i> |
| <i>3.51.20</i> | <i>3.51.40</i> | <i>61.</i> 100 | <i>3.59.00</i> | <i>4.19.00</i> |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| <i>Towed 40 ft to 100 fms. wire at an estimated depth of 60 fms.</i> | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| <i>Depth wasn't estimated; it was demonstrated by actual sounding.</i> | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

Revised at the time.

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|------------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | | |
| | | 2600 | Weather | |
| | | 2700 | Wind | |
| | | 2800 | Sea | |
| | | 2900 | | |
| | | 3000 | Ther. att'd. | |
| | | 3100 | Chart. | H.O. 1300. |
| | | 3200 | Course | W x S |
| | | 3300 | Bat. | 38° 12' N |
| | | 3400 | | 137° E |
| | | 3500 | Bearings: | Niigata |
| | | 3600 | Lt S 29° | (to) E |
| | | 3700 | dist | 18 mi |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

No. *D. 4818* Date *July 19, 1906*
Lucas Machine. Reel. *Lucas*
 Turns Cor.+ Depth *225 fath.*
 Shot or lead *35^{lb} shot & Sigsbee 100 lb.*
 Bottom *fine gn. M.*
 Bottom temperature *33.8°*
 No. of thermometer *108019* Cor. *-.1*
 Corrected temperature *33.7°*
 Air *82°* Surface *75°* Drift
 Trawl or dredge *12' Vanne*

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|----------------|--------|--------------|----------------|
| DOWN. | UP. | | DOWN. | UP. |
| <i>49-10</i> | <i>8-57-20</i> | 0 | | <i>9-44-10</i> |
| <i>50-25</i> | <i>56-00</i> | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | | |
| | | 2600 | | |
| | | 2700 | | |
| | | 2800 | | |
| | | 2900 | | |
| | | 3000 | | |
| | | 3100 | | |
| | | 3200 | | |
| | | 3300 | | |
| | | 3400 | | |
| | | 3500 | | |
| | | 3600 | | |
| | | 3700 | | |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

35° 08' 53" N.
 138° 31' 30" E.
 24° E. (to) 4 mi

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

No. *D. 4817* Date *July 17, 1906.*
Lucas Machine. Reel. *Lucas*
 Turns. Cor.+ Depth
 Shot or lead *33^{lb} shot & tel. tube*
 Bottom *fine br. M.*
 Bottom temperature *33.2°*
 No. of thermometer *108019* Cor. *-.1°*
 Corrected temperature *33.1°*
 Air *81°* Surface *73°* Drift
 Trawl or dredge *12' 4'*

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|---------------------------|-----------------|----------------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 0 | <i>10-07-00</i> | <i>10-49-1</i> |
| | | 100 | <i>10-30</i> | <i>4</i> |
| | | 200 | <i>13-35</i> | <i>43</i> |
| | | 300 | <i>16-45</i> | <i>39-13</i> |
| | | 400 <i>330</i> | <i>10-17-45</i> | <i>10-37</i> |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | | |
| | | 2600 | | |
| | | 2700 | | |
| | | 2800 | | |
| | | 2900 | | |
| | | 3000 | | |
| | | 3100 | | |
| | | 3200 | | |
| | | 3300 | | |
| | | 3400 | | |
| | | 3500 | | |
| | | 3600 | | |
| | | 3700 | | |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

No. *4820*. Date *19 Jul., 1906.**Lucas* Machine. Reel. *Lucas.*Turns Cor.+ Depth *536 fms.*Shot or lead *30 lb and Talc Tubes*Bottom *gn. M.*Bottom temperature *32.5°*No. of thermometer *108021* Cor. *-0.1*Corrected temperature *32.4°*Air *80°* Surface *76°* DriftTrawl or dredge *12' Tanner*

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|----------------|--------|----------------|----------------|
| DOWN. | UP. | | DOWN. | UP. |
| <i>3.05.10</i> | <i>3.10.10</i> | 0 | <i>3.22.20</i> | <i>4.00.00</i> |
| <i>06.30</i> | | 100 | <i>24.30</i> | <i>3.58.00</i> |
| <i>07.30</i> | | 200 | <i>26.40</i> | <i>3.56.00</i> |
| <i>08.40</i> | | 300 | <i>28.50</i> | <i>3.54.00</i> |
| <i>09.45</i> | | 400 | <i>31.00</i> | <i>3.52.00</i> |
| <i>10.50</i> | | 500 | <i>33.10</i> | <i>3.50.00</i> |
| <i>3.11.20</i> | <i>3.15.00</i> | 600 | <i>35.20</i> | <i>3.48.00</i> |
| | | 700 | <i>37.30</i> | <i>3.46.00</i> |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|-----------------------|-------------------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | <i>2.20</i> | <i>2.20</i> |
| | | 2600 | <i>Weather</i> | <i>023-9</i> |
| | | 2700 | <i>Wind</i> | <i>WSW-2</i> |
| | | 2800 | <i>Sea</i> | <i>S.</i> |
| | | 2900 | <i>Barometer</i> | <i>29.79</i> |
| | | 3000 | <i>Ther. att'd.</i> | <i>78°</i> |
| | | 3100 | <i>Chart</i> | <i>H.O. 1300.</i> |
| | | 3200 | <i>Course, P.S.G.</i> | <i>SW 1/2 S</i> |
| | | 3300 | <i>Lat. 37°</i> | <i>37° N.</i> |
| | | 3400 | <i>Long. 138°</i> | <i>19° E.</i> |
| | | 3500 | <i>Range</i> | <i>5 miles</i> |
| | | 3600 | <i>Time</i> | <i>1.25</i> |
| | | 3700 | <i>Speed</i> | <i>1.50</i> |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

No. *11420* Cont Date *19*

Machine. Reel.

Turns. Cor.+ Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *80* Surface *76* DriftTrawl or dredge *1-1* *12-20-13*

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| | | 0 | | |
| | | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | <i>2500</i> | |
| | | 2600 | <i>2600</i> | |
| | | 2700 | <i>2700</i> | |
| | | 2800 | <i>2800</i> | |
| | | 2900 | <i>2900</i> | |
| | | 3000 | <i>3000</i> | |
| | | 3100 | <i>3100</i> | |
| | | 3200 | <i>3200</i> | |
| | | 3300 | <i>3300</i> | |
| | | 3400 | <i>3400</i> | |
| | | 3500 | <i>3500</i> | |
| | | 3600 | | |
| | | 3700 | | |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------------|--------------|-------------|-------------|
| 25 | <i>54.6</i> | <i>1000</i> | <i>-0.7</i> | <i>54.6</i> |
| 50 | <i>51.8</i> | <i>1000</i> | <i>-0.8</i> | <i>51.8</i> |
| 100 | <i>46.9</i> | <i>1000</i> | <i>-0.9</i> | <i>46.9</i> |
| 200 | <i>33.9</i> | <i>1000</i> | <i>-0.1</i> | <i>33.9</i> |
| 300 | | | | |
| 400 | <i>52.8</i> | <i>1000</i> | <i>-0.1</i> | <i>52.8</i> |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

per temp 7.0
11 x 3.2 therm.
Corrected Temp. 76.0

507
No. 4621

11-1023

No. *D. 4621*

Date

July 19/06

Machine.

Reel.

Turns.

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air *77°*

Surface *66°*

Drift

Trawl or dredge *Net #1*

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|-----------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| | | 0 | | |
| | | 100 | <i>5 0.3 30</i> | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|---------------------|-------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | | |
| | | 2600 | | |
| | | 2700 | | |
| | | 2800 | | |
| | | 2900 | Barmeter | 29.78 |
| | | 3000 | Therm. 1. | |
| | | 3100 | | 30' |
| | | 3200 | Course, PSC: 2.77 | |
| | | 3300 | Lat. 37° 33' N. | |
| | | 3400 | Long. 138° 12' E. | |
| | | 3500 | Bearings: Sawa Gadi | |
| | | 3600 | 2.17 | |
| | | 3700 | dist. 17 mi. | |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

No. *D. 4822* Date *21 Feb. 06.**Lucas* Machine. Reel. *Lucas.*Turns Cor. + Depth *130 fms.*Shot or lead *35 lb* and Tole TubesBottom *gn. M.*Bottom temperature *39.5°*No. of thermometer *108155* Cor. *-0.1°*Corrected temperature *39.4°*Air *82°* Surface *80°* DriftTrawl or dredge *12' Tanner*

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|----------------|----------------|----------------------|----------------|
| DOWN. | UP. | | DOWN. | UP. |
| <i>5.21.15</i> | <i>8.26.30</i> | 0 | <i>8.32.00</i> | <i>0.00.20</i> |
| <i>23.35</i> | <i>8.25.30</i> | 100 | <i>35.30</i> | <i>9.01.20</i> |
| <i>0.22.00</i> | <i>8.24.30</i> | <i>130-180</i> | <i>8.38.15</i> | <i>8.58.15</i> |
| | | 200 | | |
| | | 300 | | |
| | | 400 | <i>Time 20 mins.</i> | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|---------------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | | T. 2 |
| | | 2600 | Weather | Clear, 2. |
| | | 2700 | Wind | Variable, 0-1 |
| | | 2800 | Sea | S. |
| | | 2900 | Barometer | 29.74 |
| | | 3000 | Ther. altit. | 79° |
| | | 3100 | Chart | B.A. 2243. |
| | | 3200 | Course, RSC, | N.E. |
| | | 3300 | Lat. 37° | |
| | | 3400 | Long. 137° | |
| | | 3500 | Bearings. | |
| | | 3600 | S. 80° W. | (true) |
| | | 3700 | 4.5 miles. | |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

No. 2123. Date 21 Feb. 06.

Machine. Lucas

Reel.

Lucas

Turns

Cor. +

Depth 545 fms.

Shot or lead 35 lb & T.T.

Bottom gn. M.

Bottom temperature 32.9°

No. of thermometer 108155 Cor. -0.1

Corrected temperature 32.8°

Air 80° Surface 78° Drift

Trawl or dredge 12' Tanner.

am. SOUNDING WIRE.

| DOWN. | UP. |
|-------|-------|
| 0 | 00.00 |
| 100 | 31.00 |
| 200 | 31.05 |
| 300 | 31.10 |
| 400 | 31.15 |
| 500 | 31.20 |
| 545 | 31.25 |
| 600 | 31.30 |
| 675 | 31.35 |
| 700 | 31.40 |
| 800 | 31.45 |
| 900 | 31.50 |
| 1000 | 31.55 |
| 1100 | 32.00 |
| 1200 | 32.05 |
| 1300 | 32.10 |
| 1400 | 32.15 |
| 1500 | 32.20 |
| 1600 | 32.25 |
| 1700 | 32.30 |
| 1800 | 32.35 |
| 1900 | 32.40 |
| 2000 | 32.45 |
| 2100 | 32.50 |
| 2200 | 32.55 |
| 2300 | 33.00 |
| 2400 | 33.05 |
| 2500 | 33.10 |
| 2600 | 33.15 |
| 2700 | 33.20 |
| 2800 | 33.25 |
| 2900 | 33.30 |
| 3000 | 33.35 |
| 3100 | 33.40 |
| 3200 | 33.45 |
| 3300 | 33.50 |
| 3400 | 33.55 |
| 3500 | 34.00 |
| 3600 | 34.05 |
| 3700 | 34.10 |
| 3800 | 34.15 |
| 3900 | 34.20 |
| 4000 | 34.25 |
| 4100 | 34.30 |
| 4200 | 34.35 |
| 4300 | 34.40 |
| 4400 | 34.45 |
| 4500 | 34.50 |
| 4600 | 34.55 |
| 4700 | 35.00 |
| 4800 | 35.05 |
| 4900 | 35.10 |
| 5000 | 35.15 |
| 5100 | 35.20 |
| 5200 | 35.25 |
| 5300 | 35.30 |
| 5400 | 35.35 |
| 5500 | 35.40 |
| 5600 | 35.45 |
| 5700 | 35.50 |
| 5800 | 35.55 |
| 5900 | 36.00 |
| 6000 | 36.05 |
| 6100 | 36.10 |
| 6200 | 36.15 |
| 6300 | 36.20 |
| 6400 | 36.25 |
| 6500 | 36.30 |
| 6600 | 36.35 |
| 6700 | 36.40 |
| 6800 | 36.45 |
| 6900 | 36.50 |
| 7000 | 36.55 |
| 7100 | 37.00 |
| 7200 | 37.05 |
| 7300 | 37.10 |
| 7400 | 37.15 |
| 7500 | 37.20 |
| 7600 | 37.25 |
| 7700 | 37.30 |
| 7800 | 37.35 |
| 7900 | 37.40 |
| 8000 | 37.45 |
| 8100 | 37.50 |
| 8200 | 37.55 |
| 8300 | 38.00 |
| 8400 | 38.05 |
| 8500 | 38.10 |
| 8600 | 38.15 |
| 8700 | 38.20 |
| 8800 | 38.25 |
| 8900 | 38.30 |
| 9000 | 38.35 |
| 9100 | 38.40 |
| 9200 | 38.45 |
| 9300 | 38.50 |
| 9400 | 38.55 |
| 9500 | 39.00 |
| 9600 | 39.05 |
| 9700 | 39.10 |
| 9800 | 39.15 |
| 9900 | 39.20 |
| 10000 | 39.25 |

TURNS.

am. DREDGE ROPE.

| I. DOWN. | UP. |
|-------------------------|----------|
| 9.37.50 | 10.47.00 |
| 41.10 | 43.15 |
| 43.55 | 40.05 |
| x) 52.55 | 36.55 |
| 55.55 | 33.50 |
| 58.55 | 30.30 |
| 10.01.35 | 27.00 |
| 10.04.00 | 10.24.00 |
| = 20 min ^{xx)} | |
| II. 11.04 | |
| 10.02.15 | 31.15 |
| 10.05.15 | 28.15 |
| 10.08.15 | 25.15 |
| 10.11.15 | 22.15 |
| 10.14.15 | 19.15 |
| 10.17.15 | 16.15 |
| 10.20.15 | 13.15 |
| 10.23.15 | 10.15 |
| 10.26.15 | 07.15 |
| 10.29.15 | 04.15 |
| 10.32.15 | 01.15 |
| 10.35.15 | 00.00 |
| 10.38.15 | |
| 10.41.15 | |
| 10.44.15 | |
| 10.47.15 | |
| 10.50.15 | |
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| 10.56.15 | |
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| 29.50.15 | |
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| 29.56.15 | |
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| 30.02.15 | |
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| 30.44.15 | |
| 30.47.15 | |
| 30.50.15 | |
| 30.53.15 | |
| 30.56.15 | |
| 30.59.15 | |
| 31.02.15 | |
| 31.05.15 | |
| 31.08.15 | |

Second haul = Just before hearing up Accu mulator registered 2 1/2 Fove in to 460 fms. at

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------------------------|------------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | P.L. | S. 7 |
| | | 2600 | Weather | br. 1 |
| | | 2700 | Wind | NNE. 0-1 |
| | | 2800 | Sea | S. |
| | | 2900 | Barometer | 29.78 |
| | | 3000 | Ther. with. | 77° |
| | | 3100 | Chart | B.A. 2243. |
| | | 3200 | Course, PSC. | N.E. |
| | | 3300 | Long. 137° 10' 05" E. | |
| | | 3400 | Long. 137° 10' 05" E. | |
| | | 3500 | Barometer | No Sahr |
| | | 3600 | S. 79° W. (true) dist. 6.25 n. | |
| | | 3700 | | |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | 04824 | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

The boat came up
 Had but tail catching gear
 way at surface and lost
 load.

No. *H 210* Date *June 1, 1881*
Lucas Machine. Reel. *Lucas*
Turns Cor.+ Depth *84*
Shot or lead *Lucas 2*
Bottom *gn M fm gy l*
Bottom temperature *52.1*
No. of thermometer *108155* Cor. *-0.2°*
Corrected temperature *51.9°*
Air Surface Drift
Trawl or dredge

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|---------------|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| <i>3/1 20</i> | <i>3 31.5</i> | 0 | | |
| | | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|----------------------|-------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | FL | 3L, 4 |
| | | 2600 | Lat 34° 24' 10" N | |
| | | 2700 | Long 137° 28' 40" E | |
| | | 2800 | | |
| | | 2900 | Misaki Pt. 7160 fms. | |
| | | 3000 | | |
| | | 3100 | | |
| | | 3200 | | |
| | | 3300 | | |
| | | 3400 | | |
| | | 3500 | | |
| | | 3600 | | |
| | | 3700 | | |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

No. *D 4825*

Date

21 July, 06

Machine.

Reel.

Lucas

Turns

Cor. +

Depth *120 fath*

Shot or lead

Lucas 1-1

Bottom

fine. gr. S. 11-12. Sp.

Bottom temperature

42°

No. of thermometer

*108155*Cor. *-1°*Corrected temperature *41.9*

Air

88°

Surface

79°

Drift

Trawl or dredge

12' Tm

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

0

4-05-00

100

8-20

200

4-10-40

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|---------------------------|------------------------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | <i>7 1/2</i> | <i>3 1/2</i> |
| | | 2600 | | |
| | | 2700 | | |
| | | 2800 | | |
| | | 2900 | | |
| | | 3000 | | |
| | | 3100 | | |
| | | 3200 | <i>Chart BA. 2243</i> | |
| | | 3300 | <i>Bearing: Sledge</i> | |
| | | 3400 | <i>Misaki Lt N. 68° W</i> | |
| | | 3500 | <i>(true) dist 11.5</i> | |
| | | 3600 | | |
| | | 3700 | | |
| | | 3800 | <i>Lat.</i> | <i>37° 27' 30" N.</i> |
| | | 3900 | <i>Long.</i> | <i>137° 32' 20" E.</i> |
| | | 4000 | | |

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

No. *D 4826*Date *July 21, 1906*

Machine.

Reel.

Lucas

Turns

Cor. +

Depth *114 fath*Shot or lead *35 lb shot &*Bottom *S.*Bottom temperature *42.6°*No. of thermometer *101*

Cor. - .1°

Corrected temperature

Air *81°*Surface *79°*

Drift

Trawl or dredge *12'*

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| | | 0 | | |
| | | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|-----------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | | |
| | | 2600 | | |
| | | 2700 | | |
| | | 2800 | Course 0602 | |
| | | 2900 | | |
| | | 3000 | Time 11 51 | |
| | | 3100 | | |
| | | 3200 | Lat 37° 25' 3 | |
| | | 3300 | Long 137° 52' 6 | |
| | | 3400 | | |
| | | 3500 | | |
| | | 3600 | | |
| | | 3700 | | |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

No. *H. 4879* Date *9*
Sigsbee Machine. Reel. *no*
 Turns *409* Cor.+ *Depth 409*
 Shot or lead *35 lbs and T.T.*
 Bottom *gn. M.*
 Bottom temperature *108.5*
 No. of thermometer *108155* Cor. *0*
 Corrected temperature *108.5*
 Air *83°* Surface *70* Drift
 Trawl or dredge

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| | | 0 | | |
| | | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | | |
| | | 2600 | | |
| | | 2700 | | |
| | | 2800 | | |
| | | 2900 | | |
| | | 3000 | | |
| | | 3100 | | |
| | | 3200 | | |
| | | 3300 | | |
| | | 3400 | | |
| | | 3500 | | |
| | | 3600 | | |
| | | 3700 | | |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

No. *D. 4827* Date *21 July, 1906.*

Machine. Reel.

Turns. Cor.+ Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Corrected temperature

Air *78°* Surface *78°* DriftTrawl or dredge *Samuel, 18' 2, 1/2*

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|---------------------------|-----|--------|--------------|-------------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 0 | <i>0.00</i> | <i>1.00</i> |
| | | 100 | <i>1.00</i> | <i>1.00</i> |
| | | 200 | | |
| <i>Lower bottom, the</i> | | 300 | <i>Towed</i> | <i>note</i> |
| <i>to 1000 fms.</i> | | 400 | | |
| <i>bottom, about 1000</i> | | 500 | | |
| <i>fms., in 1000</i> | | 600 | | |
| <i>fms.</i> | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|-------------------------|-------------------------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | <i>P.L.</i> | — |
| | | 2600 | <i>Weather</i> | <i>Temp. 1</i> |
| | | 2700 | <i>Wind</i> | <i>NNE. 1</i> |
| | | 2800 | <i>Sea</i> | <i>S.</i> |
| | | 2900 | <i>Bar.</i> | <i>29.78</i> |
| | | 3000 | <i>Therm.</i> | <i>10.0</i> |
| | | 3100 | <i>Course</i> | <i>S.E.</i> |
| | | 3200 | <i>Light</i> | <i>10.0</i> |
| | | 3300 | <i>Lat. 30° 00' N</i> | <i>Long. 137° 00' E</i> |
| | | 3400 | <i>Long. 137° 43' E</i> | |
| | | 3500 | | |
| | | 3600 | | |
| | | 3700 | | |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

No. *711* Date *Jan 11*
Machine. Reel. *Lucas*
Turns Cor.+ Depth *163*
Shot or lead *35 lb shot T.T.*
Bottom *gn m.*
Bottom temperature *35.0*
No. of thermometer *108155* Cor. *-0.1*
Corrected temperature *34.9°*
Air *78* Surface *77* Drift
Trawl or dredge *12 ft Tanner*

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|--------------|-------------|----------------|----------------|
| DOWN. | UP. | | DOWN. | UP. |
| <i>7.54.00</i> | <i>52.05</i> | 0 | <i>7.54.00</i> | <i>35.20</i> |
| <i>4.00</i> | <i>51.00</i> | 100 | <i>8.02.00</i> | <i>34.50</i> |
| | <i>50.15</i> | 200 | <i>5.10</i> | <i>34.20</i> |
| | | <i>2200</i> | <i>6.00</i> | <i>8.26.15</i> |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|--------------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | | |
| | | 2600 | | 1000 |
| | | 2700 | Wind | E 1 |
| | | 2800 | Sea | S |
| | | 2900 | Bar | 29.74 |
| | | 3000 | Throat | 86 |
| | | 3100 | Course | NE |
| | | 3200 | Dist. | 4.0. 1301 |
| | | 3300 | Lat | 37° 23' 21. |
| | | 3400 | Long | 137° 36' E. |
| | | 3500 | | |
| | | 3600 | | |
| | | 3700 | (true) | dist. 16 mi. |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1021

REMARKS:

No. *74829* Date *July 06*
Machine. Reel.

Turns — Cor. + — Depth *527*

Shot or lead *35 lb* Shot *TT*

Bottom *gn M.*

Bottom temperature *33.0*

No. of thermometer *108155* Cor. *-0.1*

Corrected temperature *32.9*

Air *81* Surface *78* Drift —

Trawl or dredge *12 ft beam trawl*

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| | | 0 | <i>35.05</i> | |
| | | 100 | <i>37.10</i> | |
| | | 200 | <i>39.15</i> | |
| | | 300 | <i>41.15</i> | |
| | | 400 | <i>43.15</i> | |
| | | 500 | <i>45.20</i> | |
| | | 600 | <i>47.25</i> | |
| | | 700 | <i>49.30</i> | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|-------------------------|-----------------------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | | <i>22.4</i> |
| | | 2600 | | <i>22.4</i> |
| | | 2700 | | <i>22.4</i> |
| | | 2800 | <i>Sea</i> | <i>S</i> |
| | | 2900 | <i>124</i> | <i>29.75</i> |
| | | 3000 | | <i>1</i> |
| | | 3100 | | <i>S</i> |
| | | 3200 | <i>1st</i> | <i>37° 20' 71</i> |
| | | 3300 | | <i>137° 41' 30" E</i> |
| | | 3400 | | <i>Long</i> |
| | | 3500 | <i>Miedki Lt.</i> | |
| | | 3600 | <i>71.58° W. (true)</i> | |
| | | 3700 | <i>21 mi</i> | |
| | | 3800 | <i>Chart</i> | <i>N. E. No 1</i> |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

No. *4830* Date *22 July 06*
Lucas Machine. Reel. *Lucas*
 Turns. Cor.+ Depth *548*
 Shot or lead *350* Shot *TT*
 Bottom *gn M*
 Bottom temperature *32.8*
 No. of thermometer *108155* Cor.
 Corrected temperature *32.7°*
 Air *86* Surface *80* Drift *—*
 Trawl or dredge *12 ft Tanner*

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-------------|---------------|----------------|-----------------|
| DOWN. | UP. | | DOWN. | UP. |
| <i>10.21</i> | <i>5.45</i> | 0 | <i>1.00</i> | <i>5.30</i> |
| <i>10.22</i> | <i>5.44</i> | 100 | <i>5.21</i> | <i>5.15</i> |
| <i>10.23</i> | <i>5.43</i> | 200 | <i>5.22</i> | <i>5.11</i> |
| <i>10.24</i> | <i>5.42</i> | 300 | <i>1-01.00</i> | <i>4.51</i> |
| <i>10.25</i> | <i>5.41</i> | 400 | <i>1.02.00</i> | <i>4.41</i> |
| <i>10.26</i> | <i>5.40</i> | 500 | <i>0.57.15</i> | <i>3.51.15</i> |
| <i>10.27</i> | <i>5.39</i> | 600 | <i>1.01.00</i> | <i>3.41.15</i> |
| <i>10.28</i> | <i>5.38</i> | <i>50</i> 700 | <i>1.03.00</i> | <i>11.57.30</i> |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|--------------------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | <i>Fl</i> | <i>—</i> |
| | | 2600 | <i>W. 2</i> | <i>—</i> |
| | | 2700 | <i>W. 2</i> | <i>—</i> |
| | | 2800 | <i>W. 2</i> | <i>S</i> |
| | | 2900 | <i>W. 2</i> | <i>27.13</i> |
| | | 3000 | <i>W. 2</i> | <i>—</i> |
| | | 3100 | <i>W. 2</i> | <i>S</i> |
| | | 3200 | <i>W. 2</i> | <i>300 16' 20"</i> |
| | | 3300 | <i>W. 2</i> | <i>159° 40' E.</i> |
| | | 3400 | <i>W. 2</i> | <i>—</i> |
| | | 3500 | <i>W. 2</i> | <i>—</i> |
| | | 3600 | <i>W. 2</i> | <i>78.700</i> |
| | | 3700 | | |
| | | 3800 | | |
| | | 3900 | <i>W. 2</i> | <i>120</i> |
| | | 4000 | | |

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

No. *D. 4831* Date *July 22, 1905*Lucas. Machine. Reel. *Lucas*Turns. Cor.+ Depth *619 fms.*Shot or lead *35 lb. & T.T.*Bottom *gn. s.*Bottom temperature *32.8°*No. of thermometer *108155-* Cor. *-1°*Corrected temperature *32.7*Air *87°* Surface *82°* DriftTrawl or dredge *12' Van Dine beam trawl Intermediate & Shallow*

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|------------------------|---------|--------|---------------------------------------------|-------|
| DOWN. | UP. | | DOWN. | UP. |
| 1-01-50 | 1-14-50 | 0 | 1-22-50 | 2-38- |
| 2-00 | 13-10 | 100 | 26-10 | 35-10 |
| 3-00 | 12-50 | 200 | 27-10 | 32-00 |
| 4-05 | 12-00 | 300 | 32-05 | 28-50 |
| 5-10 | 11-10 | 400 | 35-05 | 25-50 |
| 6-15 | 9-55 | 500 | 38-05 | 22-50 |
| 7-20 | 9-00 | 600 | 41-55 | 17-50 |
| 1-7-40 | 1-8-40 | 700 | 43-50 | 16-00 |
| <i>Intermediate #1</i> | | 800 | 46-30 | 11-20 |
| <i>1/2 #2 #3</i> | | 900 | | |
| | | 1000 | | |
| | | 1100 | <i>no like sample on bottom. Overlapped</i> | |
| | | 1200 | | |
| | | 1300 | <i>Net down from 1500 m. after</i> | |
| | | 1400 | | |
| | | 1500 | <i>Drift at approx. depth of 300 fms.</i> | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | | |
| | | 2600 | | |
| | | 2700 | | |
| | | 2800 | | |
| | | 2900 | | |
| | | 3000 | | |
| | | 3100 | | |
| | | 3200 | | |
| | | 3300 | | |
| | | 3400 | | |
| | | 3500 | | |
| | | 3600 | | |
| | | 3700 | | |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

No. *D. 4832*. Date *23 Jul. 06.*

Lucas Machine. Reel. *Lucas*

Turns Cor.+ Depth *76 fm.*

Shot or lead *Sigsbee 35-lb and Sigsbee 5-lb Cwp.*

Bottom *dk. gy. S.*

Bottom temperature *53.4°*

No. of thermometer *10815*. Cor. *- 0.2*

Corrected temperature *53.2°*

Air *91°* Surface *77°* Drift

Trawl or dredge *9' Alb.-Blake*

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|----------------|------------------------|----------------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 0 | <i>8.31.00</i> | <i>8.31.00</i> |
| | | <i>76. 100</i> | <i>8.31.00</i> | <i>52.45</i> |
| | | <i>125 200</i> | <i>8.31.50</i> | <i>8.51.50</i> |
| | | 300 | | |
| | | 400 | <i>Trawled 20 min.</i> | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|----------------------------|--------------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | | |
| | | 2600 | | |
| | | 2700 | Wind | Variable 1-0 |
| | | 2800 | | |
| | | 2900 | | |
| | | 3000 | | |
| | | 3100 | | |
| | | 3200 | | |
| | | 3300 | | |
| | | 3400 | | |
| | | 3500 | Bearings: 2 Sines | |
| | | 3600 | Ando (Lata) N 87° E (true) | |
| | | 3700 | Dist. 8.5 miles. | |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

No. *D. 4833* Date *23 July, 1906.*

T.N. Machine. Reel. T.N.

Turns *80* Cor. *()* Depth *79 fms.*Shot or lead *T.N. 35 lb Sinker*Bottom *dk. gy. S. R.*Bottom temperature *-*No. of thermometer *none used* Cor.Corrected temperature *-*Air *96°* Surface *77°* DriftTrawl or dredge *9' ALB.-BL.*

| am. SOUNDING WIRE. | | TURNS. | am. DREDGE ROPE. | |
|----------------------------|----------------------|--------|------------------------------|-----------------|
| DOWN. | UP. | | DOWN. | UP. |
| <i>0 02.35</i> | <i>0. 03.00</i> | 0 | <i>0. 07.20</i> | <i>0. 31.00</i> |
| <i>0. 03.00</i> | <i>0. 03.00</i> | 100 | <i>10.20</i> | <i>28.00</i> |
| | | 200 | <i>0. 12.00</i> | <i>0. 24.00</i> |
| <i>plus marks end of</i> | <i>line in hand.</i> | 300 | | |
| | | 400 | <i>12.00</i> | <i>12.00</i> |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| <i>Net came up to top,</i> | | 1000 | <i>Net came up to top,</i> | |
| <i>and one bottle stop</i> | | 1100 | <i>and one bottle stop</i> | |
| <i>saved same. No</i> | | 1200 | <i>saved same. No</i> | |
| <i>Specimen lost.</i> | | 1300 | <i>Specimen lost.</i> | |
| | | 1400 | <i>Net apparently caught</i> | |
| | | 1500 | <i>in bottom in bottom</i> | |
| | | 1600 | <i>Net apparently caught</i> | |
| | | 1700 | <i>in bottom in bottom</i> | |
| | | 1800 | <i>Net apparently caught</i> | |
| | | 1900 | <i>in bottom in bottom</i> | |
| | | 2000 | <i>Net apparently caught</i> | |
| | | 2100 | <i>in bottom in bottom</i> | |
| | | 2200 | <i>Net apparently caught</i> | |
| | | 2300 | <i>in bottom in bottom</i> | |
| | | 2400 | <i>Net apparently caught</i> | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|-----------------------|--------------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | | |
| | | 2600 | Weather | Bez. 3. |
| | | 2700 | Wind | Variable, 1. |
| | | 2800 | Sea | S. |
| | | 2900 | Bar. | 29.60 |
| | | 3000 | Ther. alt. | 81° |
| | | 3100 | Course, Rec. Wnt. | |
| | | 3200 | Chart | B. A. 2174 |
| | | 3300 | Lat. 36° 13' 40" N. | |
| | | 3400 | Long. 135° 56' 30" E. | |
| | | 3500 | Bearing. | O Shimizu |
| | | 3600 | (off Ando Zaki) | N 80° E |
| | | 3700 | (true), dist. | 8.5 m. |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

No. *D. 4834*. Date *23 July, 1906.**Lucas* Machine. Reel. *Lucas*Turns Cor.+ Depth *130 fms.*Shot or lead *Sigs. 35-lb & Sigs. Cys*Bottom *gn. M.*Bottom temperature *35.0*No. of thermometer *108155* Cor. *- 0.1*Corrected temperature *34.9*Air *90°* Surface *77°* DriftTrawl or dredge *12' Tanner (11' net)*

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|-----------------|-----------------|--------|-----------------|-----------------|
| DOWN. | UP. | | DOWN. | UP. |
| <i>11:13.30</i> | <i>11:48.00</i> | 0 | <i>11:13.30</i> | <i>11:48.00</i> |
| <i>11:14.30</i> | <i>11:47.00</i> | 100 | <i>11:14.30</i> | <i>11:47.00</i> |
| <i>11:15.30</i> | <i>11:46.00</i> | 200 | <i>11:15.30</i> | <i>11:46.00</i> |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|-----------------------------------|---------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | | 19.1 |
| | | 2600 | | beg. 4. |
| | | 2700 | | Sec. |
| | | 2800 | | |
| | | 2900 | | 2.2.54 |
| | | 3000 | rec. 2.2.50. | 1.50 |
| | | 3100 | Course, true. 7WSW | |
| | | 3200 | Chart. | B. 2174 |
| | | 3300 | Lat. $36^{\circ} 03' 30''$ N. | |
| | | 3400 | Long. $135^{\circ} 54'$ E. | |
| | | 3500 | | 2.2.54 |
| | | 3600 | N. 42° E. (tr.), 15.7 m. | |
| | | 3700 | | |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

No. *4835* Date *23 July 06*
Lucas Machine. Reel. *Lucas*
 Turns — Cor. + — Depth *132*
 Shot or lead *35^{lb} Shot 15*
 Bottom *gn m*
 Bottom temperature *35.0*
 No. of thermometer *108155* Cor. *-0.1*
 Corrected temperature
 Air *79* Surface *79* Drift —
 Trawl or dredge *12 ft Danner*

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| | | 0 | | |
| | | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | | |
| | | 2600 | | |
| | | 2700 | | |
| | | 2800 | | |
| | | 2900 | | |
| | | 3000 | | |
| | | 3100 | | |
| | | 3200 | | |
| | | 3300 | | |
| | | 3400 | | |
| | | 3500 | | |
| | | 3600 | | |
| | | 3700 | | |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

Lat 26° 03' 30" N
Long 138° 57' 30" E
depth 0 fms
21.44° E. (true)
dist. 16.5 mi.

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

No. 11

Date July 27, 1906

Machine. Reel.

Turns 54 Cor. + none Depth 54

Shot or lead

Bottom br. gn. M.

Bottom temperature 62.9

No. of thermometer 10815 Cor. - 2°

Corrected temperature 64.9

Air Surface 80 Drift

Trawl or dredge 12'

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN. A.M. UP.

| | | | |
|----|--|------|------------|
| 11 | | 0 | 10-52 40/1 |
| | | 54 | |
| 11 | | 100 | |
| | | 200 | |
| | | 300 | |
| | | 400 | |
| | | 500 | |
| | | 600 | |
| | | 700 | |
| | | 800 | |
| | | 900 | |
| | | 1000 | |
| | | 1100 | |
| | | 1200 | |
| | | 1300 | |
| | | 1400 | |
| | | 1500 | |
| | | 1600 | |
| | | 1700 | |
| | | 1800 | |
| | | 1900 | |
| | | 2000 | |
| | | 2100 | |
| | | 2200 | |
| | | 2300 | |
| | | 2400 | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|---------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | / | 155.4 |
| | | 2600 | | |
| | | 2700 | | |
| | | 2800 | | |
| | | 2900 | | |
| | | 3000 | | |
| | | 3100 | | 63 |
| | | 3200 | | |
| | | 3300 | | 35' 49" |
| | | 3400 | | |
| | | 3500 | | |
| | | 3600 | | |
| | | 3700 | | |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

No. *D. 4837* Date *July 24, 1900*

Machine. Reel.

Turns Cor. +

Depth *Est 57*

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air *103°*

Surface

80°

Drift

Trawl or dredge

12' Tanner (?)

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| | | 0 | | |
| | | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | | 2 |
| | | 2600 | | |
| | | 2700 | | |
| | | 2800 | | |
| | | 2900 | | |
| | | 3000 | | |
| | | 3100 | | |
| | | 3200 | | |
| | | 3300 | | |
| | | 3400 | | |
| | | 3500 | | |
| | | 3600 | | |
| | | 3700 | | |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

No. *2438* Date *24 Feb. 1900.*

Incas Machine. Reel. *Incas*

Turns. Cor.+ Depth *144 fms.*

Shot or lead *8 Sigsbee & Sdg. Co.*

Bottom *gn. M.*

Bottom temperature *34°*

No. of thermometer *108155* Cor. *-0.1*

Corrected temperature *33.9°*

Air *93°* Surface *80°* Drift

Trawl or dredge *12' Tanner (11 ft. net)*

SOUNDING WIRE.

TURNS.

DREDGE ROPE.

| DOWN. | UP. | | DOWN. | UP. |
|-----------------|-----------------|----------------|-----------------|--------------------|
| <i>1. 01.50</i> | <i>1. 08.00</i> | 0 | <i>1. 14.00</i> | <i>1. 48.30</i> |
| <i>03.05</i> | <i>07.00</i> | 100 | <i>17.00</i> | <i>45.00</i> |
| <i>1. 03.30</i> | <i>1. 06.30</i> | <i>144.200</i> | <i>19.05</i> | <i>42.00</i> |
| | | <i>220800</i> | <i>1. 21.00</i> | <i>1. 41.00</i> |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | <i>Slim catch.</i> |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|-----------------|-------------------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | <i>0.2.</i> | <i>50.1</i> |
| | | 2600 | <i>W. 10.00</i> | <i>5. 2</i> |
| | | 2700 | <i>W. 10.00</i> | <i>10. 1.</i> |
| | | 2800 | <i>S. 10.00</i> | <i>5.</i> |
| | | 2900 | <i>B. 10.00</i> | <i>29. 10</i> |
| | | 3000 | <i>W. 10.00</i> | <i>8. 10</i> |
| | | 3100 | <i>W. 10.00</i> | <i>10. 2 1/2</i> |
| | | 3200 | <i>W. 10.00</i> | <i>10. 5 1/2</i> |
| | | 3300 | <i>W. 10.00</i> | <i>10. 30 1/2</i> |
| | | 3400 | <i>W. 10.00</i> | <i>10. 30 1/2</i> |
| | | 3500 | <i>W. 10.00</i> | <i>10. 30 1/2</i> |
| | | 3600 | <i>W. 10.00</i> | <i>10. 30 1/2</i> |
| | | 3700 | <i>E. 10.00</i> | <i>10. 30 1/2</i> |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

No. *5482* Date *24 Feb 1906*
Lucas Machine. Reel. *Lucas*
 Turns Cor.+ Depth *140 fms.*
 Shot or lead *Sigsb. 35-l x Sdg. Cup.*
 Bottom *gy. m.*
 Bottom temperature *34.1°*
 No. of thermometer *108155* Cor. *-0.1*
 Corrected temperature *34°*
 Air *87°* Surface *79°* Drift
 Trawl or dredge *12' Trawl (11' net)*

For SOUNDING WIRE.

TURNS.

For DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

| | | | | |
|-----------------|-----------------|---------------|---------------------------|-----------------|
| <i>2. 28.45</i> | <i>2. 32.15</i> | 0 | <i>2. 36.5</i> | <i>2. 1. 25</i> |
| <i>29.00</i> | <i>31.55</i> | 100 | <i>37.25</i> | <i>2. 02.35</i> |
| <i>2. 50.00</i> | <i>2. 15.15</i> | <i>2. 200</i> | <i>37.55</i> | <i>02.45</i> |
| | | <i>2. 300</i> | <i>2. 40.30</i> | <i>2. 03.30</i> |
| | | 400 | | |
| | | 500 | <i>2. 50.25</i> | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | <i>Slower than before</i> | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|-------------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | P.L. | 75.1 |
| | | 2600 | Wind | bc. 2 |
| | | 2700 | Wind | SSW. 2. |
| | | 2800 | Sea | S. |
| | | 2900 | Bar. | 29.11 |
| | | 3000 | Ther. att. | 24.0 |
| | | 3100 | Curr. | SSW. 1/2 M. |
| | | 3200 | Curr. Rec. | SSW. |
| | | 3300 | Bar. 300 | 5.11.10. T. |
| | | 3400 | Bar. 1300 | 8.11.5. |
| | | 3500 | Bar. 1700 | 8.11.9a |
| | | 3600 | Bar. 2100 | 8.11.56°W. |
| | | 3700 | (Bar.) 2500 | 8.11.56°W. |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

No. *U D. 4840.* Date *24 Jul. 1906.**Inns* Machine. Reel. *Inns*Turns Cor.+ Depth *154 fms.*Shot or lead *35 lb* Sig. & Sdg. *Cups.*Bottom *gn M.*Bottom temperature *34°*No. of thermometer *108155.* Cor. *-0.1*Corrected temperature *33.9°*Air *84°* Surface *79°* DriftTrawl or dredge *12' Tanner (11' net).*

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|----------------|--------|----------------|----------------|
| DOWN. | UP. | | DOWN. | UP. |
| <i>1.51.25</i> | <i>1.51.15</i> | 0 | <i>1.51.25</i> | <i>31.1.10</i> |
| <i>1.52.15</i> | <i>1.52.15</i> | 100 | <i>1.52.15</i> | <i>33.1.10</i> |
| <i>1.53.05</i> | <i>1.53.05</i> | 200 | <i>1.53.05</i> | <i>35.1.10</i> |
| | | 250 | <i>1.53.05</i> | <i>37.1.10</i> |
| | | 300 | <i>1.53.05</i> | <i>39.1.10</i> |
| | | 400 | <i>1.53.05</i> | <i>41.1.10</i> |
| | | 500 | <i>1.53.05</i> | <i>43.1.10</i> |
| | | 600 | <i>1.53.05</i> | <i>45.1.10</i> |
| | | 700 | <i>1.53.05</i> | <i>47.1.10</i> |
| | | 800 | <i>1.53.05</i> | <i>49.1.10</i> |
| | | 900 | <i>1.53.05</i> | <i>51.1.10</i> |
| | | 1000 | <i>1.53.05</i> | <i>53.1.10</i> |
| | | 1100 | <i>1.53.05</i> | <i>55.1.10</i> |
| | | 1200 | <i>1.53.05</i> | <i>57.1.10</i> |
| | | 1300 | <i>1.53.05</i> | <i>59.1.10</i> |
| | | 1400 | <i>1.53.05</i> | <i>61.1.10</i> |
| | | 1500 | <i>1.53.05</i> | <i>63.1.10</i> |
| | | 1600 | <i>1.53.05</i> | <i>65.1.10</i> |
| | | 1700 | <i>1.53.05</i> | <i>67.1.10</i> |
| | | 1800 | <i>1.53.05</i> | <i>69.1.10</i> |
| | | 1900 | <i>1.53.05</i> | <i>71.1.10</i> |
| | | 2000 | <i>1.53.05</i> | <i>73.1.10</i> |
| | | 2100 | <i>1.53.05</i> | <i>75.1.10</i> |
| | | 2200 | <i>1.53.05</i> | <i>77.1.10</i> |
| | | 2300 | <i>1.53.05</i> | <i>79.1.10</i> |
| | | 2400 | <i>1.53.05</i> | <i>81.1.10</i> |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|----------------|--------------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | | 85.1 |
| | | 2600 | Weather | be 2 |
| | | 2700 | Wind | NE, 2-3 |
| | | 2800 | Sea | |
| | | 2900 | Cur. | 52.5 |
| | | 3000 | Ther. atto. | 82° |
| | | 3100 | Cloud | 3.000 |
| | | 3200 | Course, P.S.C. | N to NNE |
| | | 3300 | Lat. | 36° 02' N |
| | | 3400 | Long. | 121° 10' E |
| | | 3500 | Bearings: | Kyo Sa Niaka |
| | | 3600 | S. 41° E | |
| | | 3700 | | |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

No. *Dr. 4841* Date *July 24 06*
 Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air *80°* Surface *76°* Drift

Trawl or dredge *Net #1 and 2 K's #2 & 3*

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|----------------|----------------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 0 | <i>Out.</i> | <i>In.</i> |
| | | 100 | <i>8-03-00</i> | <i>8-23-40</i> |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|-------------------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | | |
| | | 2600 | | |
| | | 2700 | | East - 3 |
| | | 2800 | | |
| | | 2900 | | |
| | | 3000 | | |
| | | 3100 | | 1301 |
| | | 3200 | | 1116 |
| | | 3300 | | 36° 04' N. |
| | | 3400 | | 1102g 130 02 300 |
| | | 3500 | | Bearings: - Kyoga |
| | | 3600 | | Mwaki |
| | | 3700 | | Oct. 19 |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

No. *5415*, Date *June 5, 1903**T. N.* Machine. Reel.Turns Cor. + Depth *52 fms.*Shot or lead *35 lb shank lead*Bottom *fine gn. S. Sh.*Bottom temperature *54.8°*No. of thermometer *108155* Cor. *- 0.2*Corrected temperature *54.6°*Air *78°* Surface *78°* DriftTrawl or dredge *12' Tanner*

Am. SOUNDING WIRE.

TURNS.

Am. DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

9.07.00 *9.11.00*

0

9.08.30 *9.10.00**8.55* 100

150

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

9.23.30 *9.25.00**9.25.00* *9.26.30**9.26.30* *9.28.00**9.28.00* *9.29.30**9.29.30* *9.31.00**9.31.00* *9.32.30**9.32.30* *9.34.00**9.34.00* *9.35.30**9.35.30* *9.37.00**9.37.00* *9.38.30**9.38.30* *9.40.00**9.40.00* *9.41.30**9.41.30* *9.43.00**9.43.00* *9.44.30**9.44.30* *9.46.00**9.46.00* *9.47.30**9.47.30* *9.49.00**9.49.00* *9.50.30**9.50.30* *9.52.00**9.52.00* *9.53.30**9.53.30* *9.55.00**9.55.00* *9.56.30**9.56.30* *9.58.00**9.58.00* *9.59.30**9.59.30* *10.01.00**10.01.00* *10.02.30**10.02.30* *10.04.00**10.04.00* *10.05.30**10.05.30* *10.07.00**10.07.00* *10.08.30**10.08.30* *10.10.00**10.10.00* *10.11.30**10.11.30* *10.13.00*

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|-----------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | RL. | 3.9 |
| | | 2600 | Weather | bon a. |
| | | 2700 | Wind | Force. |
| | | 2800 | Sea | C. |
| | | 2900 | Bar. | 29.35 |
| | | 3000 | Ther. air. | 79° |
| | | 3100 | Chart | No. 1301. |
| | | 3200 | Course ASC. | N.W. |
| | | 3300 | Loc. 34 | 17.5. |
| | | 3400 | Long. 122° | 27' E. |
| | | 3500 | Bearings | S. 10° W. |
| | | 3600 | Saki / Dog | S. 45° W. |
| | | 3700 | (Fr.) dist | 6.1 miles |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

No. Δ , 4843. Date 26 Jul. 06

Machine. Reel. Lucas

Turns Cor.+ Depth 100 fms.

Shot or lead Sigab. 35 lbs. 5 dy. Cup.

Bottom

Bottom temperature 40°

No. of thermometer 108155. Cor. -0.1

Corrected temperature 39.9°

Air 79° Surface 76° Drift

Trawl or dredge 12' Tanner.

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|---------|--------|--------------|---------|
| DOWN. | UP. | | DOWN. | UP. |
| 2:04.55 | 2:08:15 | 0 | 2:15:20 | 2:08:45 |
| | 2:07:15 | 100 | 2:16:30 | 2:07:45 |
| | | 200 | 2:17:40 | 2:06:45 |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------------|------------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | P.L. | 34.0 |
| | | 2600 | Weather | beg. 8 |
| | | 2700 | Wind | North 4-5. |
| | | 2800 | Sea | C. |
| | | 2900 | Bar. | 29.86 |
| | | 3000 | | |
| | | 3100 | Cart | No. 1301. |
| | | 3200 | Cour. asc. N.W. | |
| | | 3300 | Lat. 36° 29' 20" N | |
| | | 3400 | | |
| | | 3500 | Bearings: DOJO ID. | |
| | | 3600 | SE., dist 14 m. | |
| | | 3700 | | |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS:

No. *108* Date *May 10 1881*
Lucas Machine. Reel. *Lucas*
 Turns Cor.+ Depth
 Shot or lead
 Bottom
 Bottom temperature
 No. of thermometer *108* Cor.
 Corrected temperature
 Air Surface Drift
 Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

| DOWN. | UP. | TURNS. | DOWN. | UP. |
|-------|-----|--------|-------|-----|
| | | | | |
| | | 0 | | |
| | | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

No. *D 4844* Date *July 26/06*
Lucas Machine. Reel. *Lucas*
 Turns Cor. + Depth *116 f.*
 Shot ~~or lead~~ *35 lb*
 Bottom *gm; V*
 Bottom temperature
 No. of thermometer *103* Cor. - *.1°*
 Corrected temperature *35.9*
 Air *79°* Surface Drift
 Trawl or dredge

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| | | 0 | | |
| | | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|--------------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | | |
| | | 2600 | | |
| | | 2700 | | |
| | | 2800 | | |
| | | 2900 | | |
| | | 3000 | | 80 |
| | | 3100 | | |
| | | 3200 | | 211 1301 |
| | | 3300 | | 36° 34' V. |
| | | 3400 | | 37° 50' 20E. |
| | | 3500 | | |
| | | 3600 | | |
| | | 3700 | | |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

No. 4880

Date July 26

Lucas

Machine.

Reel.

Lucas

Turns

Cor. +

Depth 571 fath

Shot or lead 35 lb and 1 lb

Bottom

lgm M

Bottom temperature

No. of thermometer 10813-5

Cor.

Corrected temperature 32.5

Air 76°

Surface 76°

Drift

Trawl or dredge

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| | | 0 | | |
| | | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | | |
| | | 2600 | | |
| | | 2700 | | |
| | | 2800 | | |
| | | 2900 | | |
| | | 3000 | | |
| | | 3100 | | |
| | | 3200 | | |
| | | 3300 | | |
| | | 3400 | | |
| | | 3500 | | |
| | | 3600 | | |
| | | 3700 | | |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

Date: _____

Reel.

Cor.+

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Corrected temperature

Air

Surface

Drift

Trawl or dredge

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|---------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 0 | 10 fms. | 10 fms. |
| | | 100 | 20 fms. | 20 fms. |
| | | 200 | | |
| | | 300 | 30 fms. | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | 40 fms. | |
| | | 1000 | 50 fms. | |
| | | 1100 | 60 fms. | |
| | | 1200 | 70 fms. | |
| | | 1300 | 80 fms. | |
| | | 1400 | 90 fms. | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|--------------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | <i>1 1/2</i> | <i>—</i> |
| | | 2600 | <i>1 1/2</i> | <i>1 1/2</i> |
| | | 2700 | <i>1 1/2</i> | <i>1 1/2</i> |
| | | 2800 | <i>1 1/2</i> | <i>1 1/2</i> |
| | | 2900 | <i>1 1/2</i> | <i>2 1/2</i> |
| | | 3000 | <i>1 1/2</i> | <i>78°</i> |
| | | 3100 | <i>1 1/2</i> | <i>78°</i> |
| | | 3200 | <i>1 1/2</i> | <i>78°</i> |
| | | 3300 | <i>1 1/2</i> | <i>78°</i> |
| | | 3400 | <i>1 1/2</i> | <i>78°</i> |
| | | 3500 | <i>1 1/2</i> | <i>78°</i> |
| | | 3600 | <i>1 1/2</i> | <i>78°</i> |
| | | 3700 | <i>1 1/2</i> | <i>78°</i> |
| | | 3800 | <i>1 1/2</i> | <i>78°</i> |
| | | 3900 | <i>1 1/2</i> | <i>78°</i> |
| | | 4000 | <i>1 1/2</i> | <i>78°</i> |

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

No. *4846* Date *27 July 06*

Machine. Reel.

Turns Cor. + Depth *641*

Shot or lead *Agassiz No. 35 shot*

Bottom *gy. & sh. M*

Bottom temperature

No. of thermometer *108155* Cor. *-1*

Corrected temperature *32.3*

Air *74* Surface *76* Drift

Trawl or dredge *7 ft. 14 fms*

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| | | 0 | | |
| | | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | | |
| | | 2600 | | |
| | | 2700 | | |
| | | 2800 | | |
| | | 2900 | | |
| | | 3000 | | |
| | | 3100 | | |
| | | 3200 | | |
| | | 3300 | | |
| | | 3400 | | |
| | | 3500 | | |
| | | 3600 | | |
| | | 3700 | | |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

No. 14847 Date 27 July 06

Machine. Reel.

Turns Cor.+

Depth 641 Est

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air 76 Surface 76 Drift

Trawl or dredge 12 ft Tanner

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| | | 0 | | |
| | | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | | |
| | | 2600 | | |
| | | 2700 | | |
| | | 2800 | | |
| | | 2900 | | |
| | | 3000 | | |
| | | 3100 | | |
| | | 3200 | | |
| | | 3300 | | |
| | | 3400 | | |
| | | 3500 | | |
| | | 3600 | | |
| | | 3700 | | |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-4023

REMARKS:

No.

(Continued)
Date 2-
Machine. Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| | | 0 | 11-24 | |
| | | 100 | 04-20 | |
| | | 200 | | |
| | | 300 | 11-24 | |
| | | 400 | 05-11-30 | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | | |
| | | 2600 | | |
| | | 2700 | | |
| | | 2800 | | |
| | | 2900 | | |
| | | 3000 | | |
| | | 3100 | | |
| | | 3200 | | |
| | | 3300 | | |
| | | 3400 | | |
| | | 3500 | | |
| | | 3600 | | |
| | | 3700 | | |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

No. 7. 4848

Date *July 27, 1906*Machine. *Reel. Lucas*

Turns

Cor. +

Depth *846 fath.*Shot or lead *60 lb. Snapper*Bottom *gy. M.*

Bottom temperature

No. of thermometer *10815-5*Cor. *..*Corrected temperature *32.7°*Air *85°*Surface *78°*

Drift

Trawl or dredge *12'*

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| | | 0 | | |
| | | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|----------------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | | |
| | | 2600 | | |
| | | 2700 | | |
| | | 2800 | | <i>S.</i> |
| | | 2900 | | <i>29.4</i> |
| | | 3000 | | <i>200</i> |
| | | 3100 | | |
| | | 3200 | | <i>H. 1301</i> |
| | | 3300 | | |
| | | 3400 | | |
| | | 3500 | | |
| | | 3600 | | |
| | | 3700 | | |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

No.

Date

Jan 7

Machine.

Reel.

Turns

Cor. +

Depth 846 *

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

12' 4/2

79

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| | | 0 | | |
| | | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | | |
| | | 2600 | | |
| | | 2700 | | |
| | | 2800 | | |
| | | 2900 | | |
| | | 3000 | | |
| | | 3100 | | |
| | | 3200 | | |
| | | 3300 | | |
| | | 3400 | | |
| | | 3500 | | |
| | | 3600 | | |
| | | 3700 | | |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1024

REMARKS:

No. *11*Date *Dec 18 1882*

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead *()*Bottom *1*

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

Surface

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| | | 0 | | |
| | | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | | |
| | | 2600 | | |
| | | 2700 | | |
| | | 2800 | | |
| | | 2900 | | |
| | | 3000 | | |
| | | 3100 | | |
| | | 3200 | | |
| | | 3300 | | |
| | | 3400 | | |
| | | 3500 | | |
| | | 3600 | | |
| | | 3700 | | |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1024

REMARKS:

No. *D 486-1*Date *July 28, 1906*Machine. *Lucas* Reel. *Lucas*

Turns

Cor. +

Depth *1315 fath.*Shot or lead *60# & Lig. rod.*Bottom *gr. br. M.*Bottom temperature *32.9°*No. of thermometer *108155*Cor. *- .1°*Corrected temperature *32.8*Air *90°* Surface *78°* DriftTrawl or dredge *9' Agassiz*

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------------|-----------------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 0 | | <i>11-04-00</i> |
| | | 100 | | <i>59-00</i> |
| | | 200 | | <i>1-20</i> |
| | | 300 | | <i>1-30</i> |
| | | 400 | | <i>47-20</i> |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | <i>38-10</i> |
| | | 800 | | <i>34-55</i> |
| | | 900 | | <i>31-35</i> |
| | | 1000 | | |
| | | 1100 | | <i>25-00</i> |
| | | 1200 | | <i>21-45</i> |
| | | 1300 | | <i>17-00</i> |
| | | 1400 | | |
| | | 1500 | | <i>6-20</i> |
| | | 1600 | | <i>20</i> |
| | | 1700 | | <i>9-32-00</i> |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | <i>wire on</i> | |
| | | 2300 | <i>letting out</i> | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|--------------------------------------------------------------------------------|-----|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| Engines failed to work properly with in. at 1650 same. Began heaving at 9-156. | | 2500 | | |
| | | 2600 | | |
| | | 2700 | | |
| | | 2800 | | |
| | | 2900 | | |
| | | 3000 | | |
| | | 3100 | | |
| | | 3200 | | |
| | | 3300 | | |
| | | 3400 | | |
| Wire from drum since while heaving in last hundred fath. Lts clear in. | | 3500 | | |
| | | 3600 | | |
| | | 3700 | Ld, 7.7 | |
| | | 3800 | 17 mi. | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------------------------|--------------|-------|------------|
| 15 | | x 108019 | | |
| 25 | 61.0° | 104914 | -0.3° | 60.7° |
| 50 | 55.5° | 98244 | -0.3° | 55.2° |
| 100 | 46.1° | 108154 | -0.7° | 45.9° |
| 200 | 33.0° | 108013 | 0.0 | 33.0° |
| 300 | | | | |
| 400 | 33.00° | 108153 | 0.1 | 32.9° |
| 500 | Started to lower at | | 11-15 | |
| 600 | 402 fath. let out at | | 11-20 | |
| 700 | Began heaving in | | 11-25 | |
| 800 | Last time in at | | 11-30 | |
| 900 | Chatter Lotta attached. | | 11-35 | |
| 1000 | ther. | | | |

REMARKS:

x Did not trip

No. *4852* Date *30 July 1902**J Lucas* Machine. Reel. *Lucas*Turns Cor.+ Depth *568 fms.*Shot or lead *35 1/4* Sigst. & Sdg. Cap.Bottom (from dredge) *gn. M.*Bottom temperature *32.7°*No. of thermometer *98244* Cor. *- 0.1*Corrected temperature *32.6°*Air *88°* Surface *78°* DriftTrawl or dredge *9' Agassiz*

Am. SOUNDING WIRE.

TURNS.

Am. DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

7: 47.00 6.00.10

0

*8.05.00 2.24.00**48.16 57.15*

100

*1.15.00 1.15.00**49.30 58.25*

200

*1.15.00 1.15.00**50.35 56.40*

300

*1.15.00 1.15.00**51.50 55.45*

400

*1.15.00 1.15.00**53.00 55.00*

500

*1.15.00 1.15.00**7.53.50 7.54.20*

600

1.15.00 1.15.00

700

1.15.00 1.15.00

800

1.15.00 1.15.00

850

1.15.00 1.15.00

900

1.15.00 1.15.00

1000

1.15.00 1.15.00

1100

1.15.00 1.15.00

1200

1.15.00 1.15.00

1300

1.15.00 1.15.00

1400

1.15.00 1.15.00

1500

1.15.00 1.15.00

1600

1.15.00 1.15.00

1700

1.15.00 1.15.00

1800

1.15.00 1.15.00

1900

1.15.00 1.15.00

2000

1.15.00 1.15.00

2100

1.15.00 1.15.00

2200

1.15.00 1.15.00

2300

1.15.00 1.15.00

2400

1.15.00 1.15.00

* Oil refilled in reel, and had to over out wire to clear same; hence the excess in time.

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|-------------------------------|------------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | P.L. | 54.1 |
| | | 2600 | Heath | 603.7 |
| | | 2700 | Winds | S.E. 2. |
| | | 2800 | Sea | S. |
| | | 2900 | Bar. | 29.67 |
| | | 3000 | Ther. Air | 80° |
| | | 3100 | Chart | H.O. 1302. |
| | | 3200 | Current, 20. 71 E-NE. | |
| | | 3300 | dit. 20. 20 N-E. | |
| | | 3400 | dit. 10. 10 N-E. | |
| | | 3500 | Bearing: C. Cloud | |
| | | 3600 | S. 88° W. (true), Dist. 10 m. | |
| | | 3700 | | |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

No. *D. 4853*, Date *30 July 1906*.*Lucas* Machine. Reel. *Lucas*Turns Cor.+ Depth *400 fms.*Shot or lead *358 Sigsh. & Sdg. Cyp.*Bottom *gn. M.*Bottom temperature *32.5°*No. of thermometer *98244* Cor. *0.1*Corrected temperature *32.4°*Air *84°* Surface *79°* DriftTrawl or dredge *9' Agassiz*

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|-----------------|-----------------|--------|------------------|------------------|
| DOWN. | UP. | | DOWN. | UP. |
| <i>0. 11.50</i> | <i>0. 50.00</i> | 0 | <i>0. 40.55</i> | <i>10. 47.25</i> |
| <i>12.50</i> | <i>49.00</i> | 100 | <i>52.15</i> | <i>46.00</i> |
| <i>13.50</i> | <i>48.05</i> | 200 | <i>55.40</i> | <i>45.00</i> |
| <i>14.50</i> | <i>47.05</i> | 300 | <i>58.55</i> | <i>37.00</i> |
| <i>0. 15.25</i> | <i>0. 46.20</i> | 400 | <i>10. 01.30</i> | <i>36.10</i> |
| | | 500 | <i>04.30</i> | <i>31.20</i> |
| | | 600 | <i>10. 08.00</i> | <i>10.29.00</i> |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------------------|---------------------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | | |
| | | 2600 | <i>11 min</i> | <i>Long. 5</i> |
| | | 2700 | <i>11 min</i> | <i>SE-E. 2.</i> |
| | | 2800 | <i>11 min</i> | <i>S</i> |
| | | 2900 | <i>11 min</i> | <i>29.68</i> |
| | | 3000 | <i>Theo. atd.</i> | <i>80°</i> |
| | | 3100 | <i>Chart</i> | <i>H.O. 1302.</i> |
| | | 3200 | <i>11 min</i> | <i>11 min</i> |
| | | 3300 | <i>Lat. 36° 08' N</i> | |
| | | 3400 | <i>Long. 129° 49' E.</i> | |
| | | 3500 | <i>C. Clouds</i> | <i>S. 80W (ty).</i> |
| | | 3600 | <i>11 min</i> | |
| | | 3700 | | |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

No.

Date

Heco Machine. — Reel. *5401*
 Turns — Cor. + — Depth *335*

Shot or lead

Bottom

Bottom temperature *32.5*No. of thermometer *91211* Cor. *-0.1*Corrected temperature *32.4*Air *81* Surface *80* Drift —Trawl or dredge *9 ft Agassiz*

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|--------------|------------|--------------|--------------|
| DOWN. | UP. | | DOWN. | UP. |
| <i>0.55</i> | <i>01</i> | 0 | <i>0.55</i> | <i>01</i> |
| <i>1.22</i> | <i>07.20</i> | 100 | <i>1.22</i> | <i>07.20</i> |
| <i>02.35</i> | <i>04.25</i> | 200 | <i>02.35</i> | <i>04.25</i> |
| <i>0</i> | <i>05.25</i> | 300 | <i>0</i> | <i>05.25</i> |
| <i>05.51</i> | <i>05.00</i> | <i>335</i> | <i>05.51</i> | <i>05.00</i> |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | | |
| | | 2600 | | |
| | | 2700 | | |
| | | 2800 | | |
| | | 2900 | | |
| | | 3000 | | |
| | | 3100 | | |
| | | 3200 | | |
| | | 3300 | | |
| | | 3400 | | |
| | | 3500 | | |
| | | 3600 | | |
| | | 3700 | | |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11. 10. 11

REMARKS:

No. *174855* Date *30 July 06*Machine. Reel. *Lucas*Turns Cor.+ Depth *70*Shot or lead *35 lb*Bottom *g*Bottom temperature *61.3*No. of thermometer *98242* Cor. *-0.3*Corrected temperature *61.0°*Air *64* Surface *00* DriftTrawl or dredge *9 ft. Lucas*

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|--------------|--------|----------------|--------------|
| DOWN. | UP. | | DOWN. | UP. |
| <i>3.10.50</i> | <i>22.40</i> | 0 | <i>3.29.30</i> | <i>59.55</i> |
| <i>1.1</i> | <i>22.10</i> | 100 | <i>3.30.20</i> | <i>51.11</i> |
| | | 200 | <i>3.31.10</i> | <i>51.41</i> |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|---------------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | | |
| | | 2600 | | |
| | | 2700 | | |
| | | 2800 | | |
| | | 2900 | | |
| | | 3000 | | |
| | | 3100 | | |
| | | 3200 | | 4.0.1307 |
| | | 3300 | | 129° 00' |
| | | 3400 | | 6. 5. 10. 11. |
| | | 3500 | | W. 5.5' |
| | | 3600 | | |
| | | 3700 | | |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

REMARKS:

No. *D 4556* Date _____
Sigsbee Machine. Reel. _____
 Turns _____ Cor.+ _____ Depth _____
 Shot ~~or lead~~ *35 lbs*
 Bottom _____
 Bottom temperature *3*
 No. of thermometer *95* Cor. - *1*°
 Corrected temperature *3*
 Air *8.9* Surface _____ Drift _____
 Trawl or dredge *1*

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| | | 0 | | |
| | | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | | |
| | | 2600 | | 60 7 |
| | | 2700 | | |
| | | 2800 | | |
| | | 2900 | | |
| | | 3000 | | |
| | | 3100 | | |
| | | 3200 | | |
| | | 3300 | | |
| | | 3400 | | |
| | | 3500 | | |
| | | 3600 | | |
| | | 3700 | | |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1024

REMARKS:

No. *Δ. 4857.* Date *30 Jul. 06*

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom *No Soundings.*

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *80°* Surface *78°* DriftTrawl or dredge *Intermed. #1, 2 No 2 and 3.*

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------------------|-----|--------|----------------|----------------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 0 | <i>2nd</i> | <i>1st</i> |
| | | 100 | <i>2.00.40</i> | <i>1.00.00</i> |
| <i>Inter. #1 view</i> | | 200 | | |
| <i>Bottom part looking</i> | | 300 | | |
| <i>brown; the two</i> | | 400 | | |
| <i>Reels towing</i> | | 500 | | |
| <i>aft on separate</i> | | 600 | | |
| <i>lines 10' ft. n.</i> | | 700 | | |
| <i>part. - all</i> | | 800 | | |
| <i>towing at the</i> | | 900 | | |
| <i>Surface.</i> | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|---------------------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | | 7c. 8 |
| | | 2600 | | NE. 2-3. |
| | | 2700 | | E. |
| | | 2800 | | 29. 8 |
| | | 2900 | | 8 |
| | | 3000 | | |
| | | 3100 | | NE. 2-3. |
| | | 3200 | | 08' 71. |
| | | 3300 | | |
| | | 3400 | | Scarping to bottom. |
| | | 3500 | | |
| | | 3600 | | dist. 8.0 mi. |
| | | 3700 | | |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

No. *71858* Date *31 July 16*Machine. / Reel. *Lucas*Turns - Cor. + — Depth *67*Shot or lead *35#* Sinker Cup *1*Bottom *gn. M. S. D.*Bottom temperature *3*No. of thermometer *98244* Cor. *-0.1*Corrected temperature *29.0*Air *77* Surface *77* DriftTrawl or dredge *12*

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|--------------|-----|
| DOWN. | UP. | | DOWN. | UP. |
| | | 0 | | |
| | | 100 | | |
| | | 200 | | |
| | | 300 | | |
| | | 400 | | |
| | | 500 | | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|-----------------------|--------------------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | <i>2 L.</i> | <i>80.8</i> |
| | | 2600 | <i>chain 1775 10</i> | |
| | | 2700 | | <i>4 1/2</i> |
| | | 2800 | | |
| | | 2900 | | |
| | | 3000 | | |
| | | 3100 | | <i>E</i> |
| | | 3200 | | <i>355</i> |
| | | 3300 | | <i>3 17 72</i> |
| | | 3400 | | <i>12 10 10 10</i> |
| | | 3500 | | <i>10 10 10</i> |
| | | 3600 | <i>14 10 10</i> | |
| | | 3700 | <i>10 10 12 10 10</i> | |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

No. *14159* Date *3 July 06*
Lucas Machine. Reel. *Lucas*
 Turns — Cor. + — Depth *93*
 Shot or lead *35 lb. Lipsey Cup*
 Bottom *gn m*
 Bottom temperature *35.9*
 No. of thermometer *98244* Cor. *-0.1*
 Corrected temperature *35.8°*
 Air *79* Surface *78* Drift
 Trawl or dredge *12 ft. Tanner*

SOUNDING WIRE.

DOWN. *am* UP.

TURNS.

DREDGE ROPE.

DOWN. *am* UP.

| | | | | |
|----------------|------------------|------|------------------|----------------|
| <i>8.29.40</i> | <i>52.40</i> | 0 | <i>8.56.35</i> | <i>33.00</i> |
| <i>50.40</i> | <i>f. 51. 25</i> | 100 | <i>9.01.50</i> | <i>29.30</i> |
| | | 200 | <i>05.40</i> | <i>9 26.00</i> |
| | | 300 | | |
| | | 400 | | |
| | | 500 | <i>Towed 20m</i> | |
| | | 600 | | |
| | | 700 | | |
| | | 800 | | |
| | | 900 | | |
| | | 1000 | | |
| | | 1100 | | |
| | | 1200 | | |
| | | 1300 | | |
| | | 1400 | | |
| | | 1500 | | |
| | | 1600 | | |
| | | 1700 | | |
| | | 1800 | | |
| | | 1900 | | |
| | | 2000 | | |
| | | 2100 | | |
| | | 2200 | | |
| | | 2300 | | |
| | | 2400 | | |

| SOUNDING WIRE. | | TURNS. | DREDGE ROPE. | |
|----------------|-----|--------|------------------------|--------------------|
| DOWN. | UP. | | DOWN. | UP. |
| | | 2500 | <i>P. L.</i> | |
| | | 2600 | <i>Weather</i> | <i>BCm 9</i> |
| | | 2700 | <i>Wyd</i> | <i>N E 2</i> |
| | | 2800 | <i>Sea</i> | <i>2</i> |
| | | 2900 | <i>Bar</i> | <i>24. 69</i> |
| | | 3000 | <i>Therm</i> | <i>78</i> |
| | | 3100 | <i>Cour</i> | <i>E</i> |
| | | 3200 | <i>Chart</i> | <i>No. 1302</i> |
| | | 3300 | <i>Lat</i> | <i>26° 17' N.</i> |
| | | 3400 | <i>Long</i> | <i>129° 41' E.</i> |
| | | 3500 | <i>Bearings</i> | <i>C. Clonard.</i> |
| | | 3600 | <i>S. 12° 10' (to)</i> | |
| | | 3700 | <i>dist. 1/2 mi</i> | |
| | | 3800 | | |
| | | 3900 | | |
| | | 4000 | | |

SERIAL TEMPERATURES.

| DEPTH. | TEMP. | NO. OF THER. | COR. | COR. TEMP. |
|--------|-------|--------------|------|------------|
| 25 | | | | |
| 50 | | | | |
| 100 | | | | |
| 200 | | | | |
| 300 | | | | |
| 400 | | | | |
| 500 | | | | |
| 600 | | | | |
| 700 | | | | |
| 800 | | | | |
| 900 | | | | |
| 1000 | | | | |

11-1023

REMARKS:

X

150
360
410



BL-A

5 5 6 6
5 5 5

790
5.55
1.35

30
20
10
360
4.70
2.30
1.40

BB 5530 BB 2 3.60

4.50
2.70
1.40
2 80
2 80
1 10

BB BB 3.00 BB 2.40 BB 3 3.40

BB 5.80 BB 2.10 BB 2.80 BB 2.10
2

22.80
22.80
1.20

180 4
16 4
20

7.54.70
52.45
3.25

12.25
41.10
1.15

2,100

28.80
26.50
1.30

45.45
43.15
2.40

200
60
3.20

54.60

9.51.40
46
5.40

35.80
33.50
1.30

34.40

19.20

48.90
56.45

9.55

1.45

1.55
2
3.10

2.90
60
3.30

Japanese Swiss #3

100 60

10
100
1000
10000

2